Biological Psychiatry

A Journal of Psychiatric Research

Contents

Volume 37, Number 1, January 1, 1995

EDITORIAL

1 Diagnosis and the Hunt for Etiology
Arthur Yuwiler

ORIGINAL ARTICLES

4 Serum Prolactin Levels and Behavior in Infants
Betsy Lozoff, Barbara T. Felt, Edward C. Nelson, Abraham W. Wolf, Herbert Y. Meltzer, and Elias Jimenez

13 Decreased Phospholipase A_2 Activity in Alzheimer Brains
Wagner F. Gattaz, Athanasios Maras, Nigel J. Cairns, Raymond Levy, and Hans Förstl

18 Altered Heart Rate Variability in Panic Disorder Patients
Ehud Klein, Elena Cnaani, Tamar Harel, Simon Braun, and Shlomo A. Ben-Haim

25 Acute Challenge ERP as a Prognostic of Stimulant Therapy Outcome in Attention-Deficit Hyperactivity Disorder
Edwin Sinclair Young, Peter Perros, Greg W. Price, and Trevor Sadler

34 The Relationship of the Skin Conductance and Finger Pulse Amplitude Components of the Orienting Response to Season of Birth in Schizophrenia and Depression
David B. Schnur, Alvin S. Bernstein, Anne Yeager, Scott Smith, and Peter Bernstein

42 Dietary Potassium Effects on Lithium Concentration and Toxicity in Hamsters
Harry Klemfuss

48 Misattribution of Eating and Obsessive-Compulsive Disorder Symptoms to Repressed Memories of Childhood Sexual or Physical Abuse
Susan L. McElroy and Paul E. Keck

BRIEF REPORTS

52 Clozapine Effects on Neuroendocrine Response to Apormorphine Challenge Testing in Chronic Neuroleptic Nonresponsive Schizophrenia: Preliminary Findings
Sally Szymanski, Jeffrey Lieberman, Simcha Pollack, Allan Safferman, Rafael Munne, Daniel Umbricht, John Kane, Michael Kronig, Miranda Chakos, and Thomas Cooper

56 The Effects of Central Cholecystokinin Receptor Blockade on Hypothalamic-Pituitary-Adrenal and Symptomatic Responses to Overnight Withdrawal from Alprazolam
James L. Abelson, George C. Curtis, Randolph Nesse, Rosalind Fantone, Robert E. Pyke, and Judith Bammert-Adams

60 Mixed Mania: Apparent Induction by a Tricyclic Antidepressant in Five Consecutively Treated Patients with Bipolar Depression
Steven C. Dilsaver and Alan C. Swann

CORRESPONDENCE

63 Thyroid Function in Mood Disorders; Response; Epileptic Psychoses and Dopamine Receptor Sensitivity

66 NEWS AND NOTES

Volume 37, Number 2, January 15, 1995

EDITORIAL

71 Sleep Microarchitecture in Depression: Commentary
Charles F. Reynolds III and Daniel Brunner

ORIGINAL ARTICLES

72 Microarchitectural Findings in Sleep EEG in Depression: Diagnostic Implications
Roseanne Armitage

85 Effect of Pharmacologic Treatments on the Sleep of Depressed Patients
Ann L. Sharpley and Philip J. Cowen

99 Sleep, Its Subjective Perception, and Daytime Performance in Insomniacs with a Pattern of Alpha Sleep
D. Schneider-Helmert and A. Kumar

106 Effects of LiCl on Triiodothyronine (T_3) Binding to Nuclei from Rat Cerebral Hemispheres
Stamatis Bolaris, Marigoula Margarity, and Theony Valcana

112 Behavioral and Endocrine Responses to Clomipramine in Panic Disorder Patients with or without Alcoholism
David T. George, David J. Nutt, Robert R. Rawlings, Monte J.M. Phillips, Michael J. Eckardt, William Z. Potter, and Markku Linnoila

CASE REPORT

120 Lithium and Pseudohallucinations: A Rare Side Effect
Martin Hambrecht

BRIEF REPORTS

122 Alterations in Hippocampal Mossy Fiber Pathway in Schizophrenia and Alzheimer's Disease
Sara K. Goldsmith and Jeffrey N. Joyce

127 A Subtracted Probe Derived from Lymphocytes of Twins Discordant for Schizophrenia Hybridizes to Selective Areas of Rat Brain
Arnold J. Friedhoff, Jeannette C. Miller, and Daryl A. Basham

132 Do Anticonvulsants Hinder Clozapine Treatment?
William Harwell Wilson

CORRESPONDENCE

134 Altered Cerebral Blood Flow during Hysterical Paresthesia; Schizophrenia and APP Gene Mutations; Autonomous Psychosis Following Psychotogenic Substance Abuse; Heterozygous for ALDH2 in Alcohol Dependence: Relationship between the ALDH2 Genotype and Personality Disorder in Alcohol-Dependent Patients with the Flushing Syndrome

138 NEWS AND NOTES

ERRATUM

139 Lack of Seasonal Variation in Abnormal TSH Secretion in Patients with Seasonal Affective Disorder
Vittorio Coiro

Volume 37, Number 3, February 1, 1995

EDITORIAL

141 Imaging of Human Brain Activation with Functional MRI
Chrit T.W. Moonen

ORIGINAL ARTICLES

144 Frontal Brain Volume and Context Effects in Short-Term Recall in Schizophrenia
Brendan A. Maher, Theo C. Manschreck, Bryan T. Woods, Deborah A. Yurgelun-Todd, and Ming T. Tsuang

151 Subcortical Hyperintensities on Magnetic Resonance Imaging: Clinical Correlates and Prognostic Significance in Patients with Severe Depression
Ian Hickie, Elizabeth Scott, Philip Mitchell, Kay Wilhelm, Marie-Paule Austin, and Barbara Bennett

161 Brain Hypometabolism of Glucose in Anorexia Nervosa: A PET Scan Study
Véronique Delvenne, Françoise Lotstra, Serge Goldman, Françoise Biver, Viviane De Maertelaer, Jocelyne Appelboom-Fondu, André Schoutens, Luc M. Bidaut, André Luxen, and Julien Mendlewicz

170 Choline Ingestion Increases the Resonance of Choline-Containing Compounds in Human Brain: An In Vivo Proton Magnetic Resonance Study
Andrew L. Stoll, Perry F. Renshaw, Enrico De Micheli, Richard Wurtman, Srinivasan S. Pillay, and Bruce M. Cohen

175 Age-Related Changes in [^{3}H]GBR 12935 Binding Site Density in the Prefrontal Cortex of Controls and Schizophrenics
Ana Hitri, Manuel F. Casanova, Joel E. Kleinman, Daniel R. Weinberger, and Richard Jed Wyatt

183 Alcohol Abuse and HIV Infection Have Additive Effects on Frontal Cortex Function as Measured by Auditory Evoked Potential P3A Latency
George Fein, Christie A. Biggins, and Shane MacKay

BRIEF REPORTS

196 The Thyroid, Sleep, and Depression
Russell T. Joffe, Martin P. Szuba, Stephen T.H. Sokolov, and Anthony J. Levitt

198 Influence of L-Triiodothyronine on Memory Following Repeated Electroconvulsive Shock in Rats: Implications for Human Electroconvulsive Therapy
Robert A. Stern, Julia M. Whealin, George A. Mason, Linda R. Noonan, Susan G. Silva, James E. Arruda, and Arthur J. Prange, Jr.

202 Pain Thresholds in Obese Binge-Eating Disorder Subjects
Nancy C. Raymond, Martina de Zwaan, Patricia L. Faris, Sean M. Nugent, Diann M. Ackard, Ross D. Crosby, and James E. Mitchell

205 Absence of Reduced Platelet Adenylate Cyclase Activity in Vietnam Veterans with PTSD
Yoav Kohn, Michael E. Newman, Bernard Lerer, Scott P. Orr, and Roger K. Pitman

209 No Association between Length of the $(CAG)_n$ Repeat of the Huntington's Disease Gene and Tourette's Syndrome
Johannes Hebebrand, Markus M. Nöthen, Birgit Klug, Roswitha Wettke-Schäfer, Astrid Camps, Sonja Lisch, Susanne Hemmer, Alexander von Gontard, Fritz Poustka, Gerd Lehmkuhl, Martin Schmidt, Peter Propping, and Helmut Remschmidt

Volume 37, Number 4, February 15, 1995

EDITORIAL

213 Fifty Years of Error
Joseph Wortis

ORIGINAL ARTICLES

215 Primary Structure of the Serotonin Transporter in Unipolar Depression and Bipolar Disorder
K. Peter Lesch, Jörg Gross, Ernst Franzek, Benjamin L. Wolozin, Peter Riederer, and Dennis L. Murphy

224 [^{3}H] Paroxetine Binding to Platelets of Patients with Social Phobia: Comparison to Patients with Panic Disorder and Healthy Volunteers
Murray B. Stein, Suzanne M. Delaney, Mariette J. Chartier, Cara D.L. Kroft, and Andrea L. Hazen

229 Basal and Haloperidol-Stimulated Prolactin and Symptoms of Nonaffective and Affective Psychoses in Neuroleptic-Free Men
Nicholas A. Keks, David L. Copolov, Dean P. McKenzie, Jayashri Kulkarni, Christine Hill, Judith D. Hope, and Bruce S. Singh

235 The Na,K-ATPase Hypothesis for Bipolar Illness
Rif S. El-Mallakh and Richard Jed Wyatt

245 Neuroendocrine Responses to d-Fenfluramine and Insulin-Induced Hypoglycemia in Chronic Fatigue Syndrome
Jenny Bearn, Theresa Allain, Patoy Coskeran, Neil Munro, Joan Butler, Alan McGregor, and Simon Wessely

253 Concordant Factors of Depression Rating Scales and Dimensionality of Depression
Takashi Suzuki, Yoichi Yoshino, Kohji Tsukamoto, and Kazuhiko Abe

259 Muscarinic Receptors on Human Eccrine Sweat Gland in Aging and Alzheimer's Disease
Helena I. Ryer, Susan E. Katz, and Michael Serby

265 Relationship between Smooth Pursuit Eye-Tracking and Cognitive Performance in Schizophrenia
Lee Friedman, John T. Kenny, John A. Jesberger, Michele M. Choy, and Herbert Y. Meltzer

BRIEF REPORTS

273 The Dexamethasone Suppression Test in Violent Suicide Attempters with Major Depression
William Pitchot, Michel Hansenne, Antonio Gonzalez Moreno, and Marc Ansseau

275 Visual Field Defects in Psychiatric Disorders: Possible Genetic Implications
Jay M. Enoch, Herbert A. Schreier, and Luiza Barroso

278 Parietal Scalp Hair Whorl Patterns in Schizophrenia
Basant K. Puri, Ahmed El-Dosoky, Saroj Cheema, Sudesh K. Lekh, Anne D. Hall, and Ann M. Mortimer

280 Prediction of Response to Total Sleep Deprivation by Autonomic Heart Rate Parameters?
Thomas Rechlin, Harald Hegmann, Maria Weiss, Mark Stemmler, Detlef Claus, and Wolfgang P. Kaschka

Volume 37, Number 5, March 1, 1995

EDITORIAL

283 Sympathetic Control of Cerebral Circulation: Relevance to Psychiatry
Roy J. Mathew

ORIGINAL ARTICLES

286 "Normal" Personality Correlates of Sensorimotor, Cognitive, and Visuospatial Gating
Neal R. Swerdlow, Diane Filion, Mark A. Geyer, and David L. Braff

300 Auditory P300 Event-Related Potentials and Neuropsychological Performance in Schizophrenia and Bipolar Affective Disorder
Valeria B.N. Souza, Walter J. Muir, Maura T. Walker, Michael F. Glabus, Hilary M. Roxborough, Clifford W. Sharp, Julie R. Dunan, and Douglas H.R. Blackwood

311 The Tridimensional Personality Questionnaire and the Intensity Dependence of Auditory Evoked Dipole Source Activity
Georg Juckel, Lutz G. Schmidt, Hans Rommelspacher, and Ulrich Hegerl

318 Hippocampal Synaptic Plasticity as a Biological Substrate Underlying Episodic Psychosis
Richard L. Port and Kevin S. Seybold

325 Comparison of Lithium Ratio between African-American and Caucasian Bipolar Patients
Tony L. Strickland, Keh-Ming Lin, Paul Fu, Dora Anderson, and Yanping Zheng

331 Satiety Effects of the Type A CCK Receptor Antagonist Loxiglumide in Lean and Obese Women
Rob J. Lieverse, Ad A.M. Masclee, Jan B.M.J. Jansen, Lucio C. Rovati, and Cornelis B.H.W. Lamers

CASE REPORTS

336 Paroxetine and Akathisia
Lenard A. Adler and Burton M. Angrist

338 Antiglucocorticoid Treatment of Refractory Depression with Ketoconazole: A Case Report
Amit Anand, Robert Malison, Christopher J. McDougle, and Lawrence H. Price

BRIEF REPORTS

341 Plasma Magnesium Decrease and Altered Calcium/Magnesium Ratio in Severe Dementia of the Alzheimer Type
Matthias R. Lemke

344 Lack of Linkage between Schizophrenia and Markers at the Telomeric End of the Pseudoautosomal Region of the Sex Chromosomes
Wolfgang Maier, Friedrich Schmidt, Sibylle G. Schwab, Joachim Hallmayer, Jürgen Minges, Manfred Ackenheil, Dirk Lichtermann, and Dieter B. Wildenauer

348 Caffeine Withdrawal Increases Lithium Blood Levels
Roberto Mester, Paz Toren, Israela Mizrachi, Leo Wolmer, Nathan Karni, and Abraham Weizman

351 NEWS AND NOTES

Volume 37, Number 6, March 15, 1995

EDITORIAL

353 The World Federation of Societies of Biological Psychiatry
Tetsuo Fukuda

ORIGINAL ARTICLES

355 Evidence Against Changes in Corticotroph CRF Receptors in Depressed Patients
Elizabeth A. Young, Huda Akil, Roger F. Haskett, and Stanley J. Watson

364 Cortisol Synthesis Inhibition: A New Treatment Strategy for the Clinical and Endocrine Manifestations of Depression
Jogin H. Thakore and Timothy G. Dinan

369 The Psychotropic Effects of Inhibitors of Steroid Biosynthesis in Depressed Patients Refractory to Treatment
A. Missagh Ghadirian, Frank Engelsmann, Veena Dhar, Daniel Filipini, Robert Keller, Guy Chouinard, and Beverley E. Pearson Murphy

376 CRH Challenge Test in Anxious Depression
William H. Meller, Roger G. Kathol, Stephen D. Samuelson, Timothy L. Gehris, Brendon T. Carroll, Andrew F. Pitts, and Paula J. Clayton

383 Serotonin Receptor Binding in a Colony Model of Chronic Social Stress
Christina R. McKittrick, D. Caroline Blanchard, Robert J. Blanchard, Bruce S. McEwen, and Randall R. Sakai

394 Antisaccades and Smooth Pursuit Eye Movements in Schizophrenia
Anne B. Sereno and Philip S. Holzman

402 First Month of Neuroleptic Treatment in Schizophrenia: Only Partial Normalization of the Late Positive Components of Visual ERP
Matti Mintz, Haggai Hermesh, Josef Glicksohn, Hanan Munitz, and Marguerite Radwan

410 Specific IgA Antibody Increases in Schizophrenia
Karl L. Reichelt and Johan Landmark

BRIEF REPORTS

414 Serotonergic Responsivity in Trichotillomania: Neuroendocrine Effects of m-Chlorophenylpiperazine
Dan J. Stein, Eric Hollander, Lisa Cohen, Daphne Simeon, and Bonnie Aronowitz

417 Neurochemistry and Paroxetine Response in Major Depression
Paul J. Goodnick, Joseph Henry, and Adarsh Kumar

420 Attention and Formal Thought Disorder in Mixed and Pure Mania
Kenji W. Sax, Stephen M. Strakowski, Susan L. McElroy, Paul E. Keck Jr., and Scott A. West

Volume 37, Number 7, April 1, 1995

EDITORIAL

425 Clozapine: The Yin and Yang of Seizures and Psychoses
Janice R. Stevens

ORIGINAL ARTICLES

427 Clozapine and Seizures
Duane Denney and Janice R. Stevens

434 Estrogen Augments Serotonergic Activity in Postmenopausal Women
Uriel Halbreich, Nathan Rojansky, Steven Palter, Henry Tworek, Paul Hissin, and Ke Wang

442 Platelet Serotonin Markers and Depressive Symptomatology
Yvette I. Sheline, Mark E. Bardgett, Jamie L. Jackson, John W. Newcomer, and John G. Csernansky

448 Diurnal Neuroendocrine and Autonomic Function in Acute and Remitted Depressed Male Patients
Robert L. Trestman, Rachel Yehuda, Emil Coccaro, Thomas Horvath, Peter Knott, Steven Gabriel, and Larry J. Siever

457 The Relationship between Tiredness Prior to Sleep Deprivation and the Antidepressant Response to Sleep Deprivation in Depression
Antoinette L. Bouhuys, Willem van den burg, and Rutger H. van den Hoofdakker

462 A Placebo-Controlled Trial of L-365, 260, A CCK_B Antagonist, in Panic Disorder
Mark S. Kramer, Neal R. Cutler, James C. Ballenger, William M. Patterson, Joseph Mendels, Alice Chenault, Ram Shrivastava, Deborah Matzura-Wolfe, Chris Lines, and Scott Reines

467 Sensory Cortical Processing and the Biological Basis of Personality
Ulrich Hegerl, Jürgen Hallinat, and Dieter Mrowinski

473 Anxiolytic Effects of Chlorodiazepoxide Blocked by Injection of $GABA_A$ and Benzodiazepine Receptor Antagonists in the Region of the Anterior Basolateral Amygdala of Rats
Scott Keith Sanders and Anantha Shekhar

477 Bipolar Affective Disorder Associated with β-Thalassemia Minor
Hiroyuki Harada, Teruo Nakajima, Johji Inazawa, and Tatsuo Abe

BRIEF REPORTS

481 CSF Isatin Is Elevated in Bulimia Nervosa
Timothy D. Brewerton, Joseph J. Zealberg, R. Bruce Lydiard, Vivette Glover, Merton Sandler, and James C. Ballenger

484 No Association of a Tyrosine Hydroxylase Gene Tetranucleotide Repeat Polymorphism in Autism, Tourette Syndrome, or ADHD
David E. Comings, Radhika Gade, Donn Muhleman, and Jeffery Sverd

487 Parallel Development of Dopamine Metabolism Tolerance in the Rat Prefrontal Cortex, Caudate-Putamen, and Amygdala Following Haloperidol Decanoate Administration
Masayoshi Kurachi, Ryoko Shibata, Masahiko Murata, and Yasuyuki Tanii

CORRESPONDENCE

491 The Office of Research Integrity Biannual Report 1991–1992; Lateralized Attentional Abnormality in Schizophrenia Is Correlated with Severity of Symptoms

492 NEWS AND NOTES

Volume 37, Number 8, April 15, 1995

EDITORIAL

495 Race, I.Q., and Genetics
Wagner H. Bridger

ORIGINAL ARTICLES

496 Continuous Infusion of Clozapine Increases Mu and Delta Opioid Receptors and Proenkephalin mRNA in Mouse Brain
Sui-Po Zhang, Thomas A. Connell, Trevor Price, George M. Simpson, Long-Wu Zhou, and Benjamin Weiss

504 Behavioral and Neuroendocrine Responses to *meta*CPP in Anorexia Nervosa
Colleen M. Hadigan, B. Timothy Walsh, Catharine Buttinger, and Eric Hollander

512 Cerebrospinal Fluid Levels of Kynurenine Pathway Metabolites in Patients with Eating Disorders: Relation to Clinical and Biochemical Variables
Mark A. Demitrack, Melvyn P. Heyes, Margaret Altemus, Teresa A. Pigott, and Philip W. Gold

521 Effects of Weight Gain and Resumption of Menses on Reduced Bone Density in Patients with Anorexia Nervosa
Toshiya Iketani, Nobuo Kiriike, Shigehiro Nakanishi, and Tadao Nakasuji

528 Menstrual Cycle-Related Sensitivity to 35% CO_2 in Panic Patients
Giampaolo Perna, Francesca Brambilla, Cinzia Arancio, and Laura Bellodi

533 The Genetic Susceptibility to Gilles de la Tourette Syndrome in a Large Multiple Affected British Kindred: Linkage Analysis Excludes a Role for the Genes Coding for Dopamine D1, D2, D3, D4, D5 Receptors, Dopamine Beta Hydroxylase, Tyrosinase, and Tyrosine Hydroxylase
Peter M. Brett, David Curtis, Mary M. Robertson, and Hugh Gurling

CASE REPORT

541 Serial Proton Magnetic Resonance Spectroscopy in a Patient with Acute Carbon Monoxide Poisoning
Tetsuhito Murata, Yoshifumi Koshino, Masashi Nishio, Ichiro Murata, Kazumasa Sakamoto, Kiminori Isaki, Satoshi Itoh, Hirohiko Kimura, and Yasushi Ishii

BRIEF REPORTS

546 Impaired Mitogen (PHA) Responsiveness and Increased Autoantibodies in Caucasian Schizophrenic Patients with the HLA B8/DR3 Phenotype
K. N. Roy Chengappa, Rohan Ganguli, Zan W. Yang, Galina Shurin, Jaspreet S. Brar, and Bruce S. Rabin

550 Clozapine Decreases Smoking in Patients with Chronic Schizophrenia
Joseph McEvoy, Oliver Freudenreich, Mark McGee, Carol VanderZwaag, Edward Levin, and Jed Rose

553 Chronobiological Approach for Treatment-Resistant Rapid Cycling Affective Disorders
Ichiro Kusumi, Tetsuro Ohmori, Masako Kohsaka, Masumi Ito, Hiroshi Honma, and Tsukasa Koyama

560 Behavioral, Physiological, and Pharmacological Interaction of Cocaine and Disulfiram in Humans
Faiq A. Hameedi, Marc I. Rosen, Elinore F. McCance-Katz, Thomas J. McMahon, Lawrence H. Price, Peter I. Jatlow, Scott W. Woods, and Thomas R. Kosten

Volume 37, Number 9, May 1, 1995

v Society Information

xii In Memoriam: Joseph Wortis

xv Foreword

565 Calendar of Program

593 Abstracts: Fiftieth Annual Convention & Scientific Program of the Society of Biological Psychiatry

684 Author Index

Volume 37, Number 10, May 15, 1995

EDITORIAL

691 Negative Symptoms of Schizophrenia: Where Do We Go from Here?
Alexander L. Miller, Roderick K. Mahurin, Dawn I. Velligan, and James W. Maas

ORIGINAL ARTICLES

694 Cholecystokinin Messenger RNA Deficit in Frontal and Temporal Cerebral Cortex in Schizophrenia
Lisa Virgo, Clare Humphries, Ann Mortimer, Thomas Barnes, Steven Hirsch, and Jacqueline de Belleroche

702 Improved Event-Related Potential Signs of Selective Attention After the Administration of the Cholecystokinin Analog Ceruletide in Healthy Persons
Herbert Schreiber, Gisela Stolz-Born, Reinhard Pietrowsky, Hans Helmut Kornhuber, Horst Lorenz Fehm, and Jan Born

713 Seizure Threshold in Electroconvulsive Therapy: I. Initial Seizure Threshold
C. Edward Coffey, Joseph Lucke, Richard D. Weiner, Andrew D. Krystal, and Michael Aque

721 Alterations in Heart Rate and Pupillary Response in Persons with Organic Solvent Exposure
Lisa A. Morrow and Stuart R. Steinhauer

731 Differential Impairments of Selective Attention Due to Frequency and Duration of Cannabis Use
Nadia Solowij, Patricia T. Michie, and Allison M. Fox

740 Hormonal Responses to the Administration of m-Chlorophenylpiperazine in Patients with Seasonal Affective Disorder and Controls
Diego Garcia-Borreguero, Frederick M. Jacobsen, Dennis L. Murphy, Jean R. Joseph-Vanderpool, Alexandra Chiara, and Norman E. Rosenthal

BRIEF REPORTS

750 Verbal Learning and Memory in Relatives of Schizophrenics: Preliminary Findings
Michael J. Lyons, Rosemary Toomey, Larry J. Seidman, William S. Kremen, Stephen V. Faraone, and Ming T. Tsuang

754 Delayed Peak Latency of the Mismatch Negativity in Schizophrenics and Alcoholics
Norbert Kathmann, Michael Wagner, Nicola Rendtorff, and Rolf R. Engel

758 Erratum

Volume 37, Number 11, June 1, 1995

EDITORIAL

761 Inositol Monophosphatase Inhibitors: A Novel Treatment for Bipolar Disorder?
John R. Atack

ORIGINAL ARTICLES

764 Brain Dysmorphology in Adults with Congenital Rubella Plus Schizophrenia-like Symptoms
Kelvin O. Lim, D. Michael Beal, Robert L. Harvey, Jr., Tim Myers, Barton Lane, Edith V. Sullivan, William O. Faustman, and Adolf Pfefferbaum

777 Seizure Threshold in Electroconvulsive Therapy (ECT) II. The Anticonvulsant Effect of ECT
C. Edward Coffey, Joseph Lucke, Richard D. Weiner, Andrew D. Krystal, and Michael Aque

789 Asymmetrical Visual-Spatial Attentional Performance in ADHD: Evidence for a Right Hemispheric Deficit
Cameron S. Carter, Penelope Krener, Marc Chaderjian, Cherise Northcutt, and Virginia Wolfe

798 Dopamine D2 Receptor Gene (DRD2) Haplotypes and the Defense Style Questionnaire in Substance Abuse, Tourette Syndrome, and Controls
David E. Comings, James MacMurray, Pat Johnson, George Dietz, and Donn Muhleman

806 Stability of Plasma Gaba at Four-Year Follow-up in Patients with Primary Unipolar Depression
Frederick Petty, Gerald L. Kramer, Mark Fulton, Lori Davis, and A. John Rush

811 Arecoline Reverses Dexamethasone Suppression of Cortisol in Normal Males: A Pilot Study
Gérard A. Charles, Paul J. Orsulak, A. John Rush, and Carl L. Fulton

BRIEF REPORTS

817 Depression and Immunity: The Biochemical Interrelationship Between the Central Nervous System and the Immune System
A.I. Kook, A. Mizruchin, N. Odnopozov, H. Gershon, and Y. Segev

820 BR-16A Restricts Development of Electroconvulsive Shock-Induced Retrograde Amnesia
Chittaranjan Andrade, H.B. Udaya, and J. Suresh Chandra

823 Eight-Year Longitudinal Follow-up of P300 and Clinical Outcome in Children from High Risk for Alcoholism Families
Shirley Y. Hill, Stuart Steinhauer, Lisa Lowers, and Jeannette Locke

828 The Relationship between Negative Symptoms and Neuropsychological Performance
Micah A. Hammer, Joanna Katsanis, and William G. Iacono

Volume 37, Number 12, June 15, 1995

EDITORIAL

831 Behavioral Response to Pharmacological Challenges: Potentials and Pitfalls
Eric Hollander

ORIGINAL ARTICLES

834 Event-Related Potentials and Alpha Synchronization in Preadolescent Boys at Risk for Psychoactive Substance Use
Janet Brigham, Ronald I. Herning, and Howard B. Moss

847 Visual ERPs Evidence for Enhanced Processing of Threatening Information in Anxious University Students
Aviv M. Weinstein

859 Stressful Life Events and EEG Sleep in Depressed and Normal Control Adolescents
Douglas E. Williamson, Ronald E. Dahl, Boris Birmaher, Raymond R. Goetz, Beverly Nelson, and Neal D. Ryan

866 Clinical and Chronobiological Effects of Light Therapy on Nonseasonal Affective Disorders
Naoto Yamada, Mathew T. Martin-Iverson, Kazushi Daimon, Tetsushi Tsujimoto, and Saburo Takahashi

874 The WAG×DA Rat: An Animal Model of Cholinergic Supersensitivity
Gail Orpen and Meir Steiner

884 Plasma Neurotransmitters, Blood Pressure and Heart Rate during Supine Resting, Orthostasis, and Moderate Exercise in Dysthymic Depressed Patients
Fuad Lechin, Bertha van der Dijs, Beatriz Orozco, Alex E. Lechin, Scarlet Báez, Marcel E. Lechin, Isaís Rada, Emilio Acosta, Luis Arocha, Vladimir Jiménez, Gladys León and Zulay García

CASE REPORT

892 Maintenance ECT for Treatment of Therapy-Resistant Paranoid Schizophrenia and Parkinson's Disease
Gereon Höflich, Siegfried Kasper, Karl-Werner Burghof, Hans-Peter Scholl, and Hans-Jürgen Möller

CORRESPONDENCE

895 Lack of Association between Clinical Symptoms and Postmortem Indices of Brain Serotonin Function in Alzheimer's Disease; Does Vitamin E Prevent Tardive Dyskinesia? Response

898 NEWS AND NOTES

900 ACKNOWLEDGMENTS

903 AUTHOR INDEX TO VOLUME 37

910 SUBJECT INDEX TO VOLUME 37